SONY

3-752-690-22 (1)

Compact Disc Player

Operating Instructions

CDP-X111ES

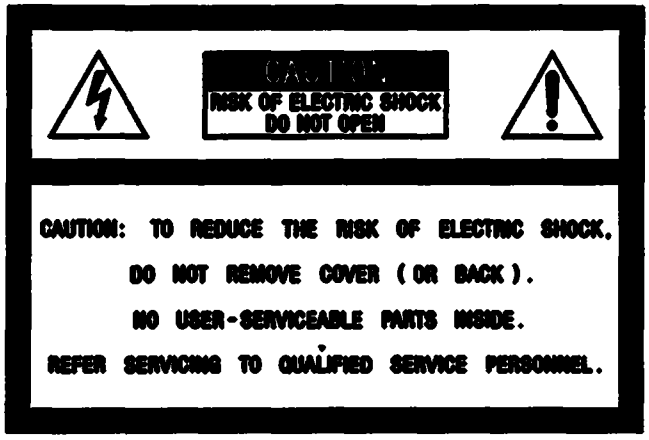
Warning

Owner's Record

The model and serial numbers are located at the rear. Record these numbers in the spaces provided below. *Refer to these numbers whenever you call upon your Sony dealer regarding this product.*

Model No. _____ Serial No. _____

To prevent fire or shock hazard, do not expose the unit to rain or moisture.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna
Relocate the equipment with respect to the receiver
Move the equipment away from the receiver
Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, DC 20402. Stock No. 004-000-00345-4.

For the customers in Canada

CAUTION:
TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

THIS APPARATUS COMPLIES WITH THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS SET OUT IN RADIO INTERFERENCE REGULATIONS.

Introducing This CD Player

Enjoy listening in various playing modes

You can select playing modes from among the following:

Continuous play (page 9)	– The entire disc is played once.
Program play (page 17)	– Selections are played in your desired order.
Shuffle play (page 13)	– Selections are played in a random order.
Repeat play (page 16)	– Selections or a portion is played repeatedly.
Delete play (page 12)	– Desired selections are played in the order on the disc.

Playing the beginning of all selections – Music Scan

You can play the first 12 seconds of all selections consecutively to decide which selection to play. (page 14)

Editing your own tapes

- You can fade the play in or out when making your own tape recording. – Fade in/Fade out (page 23)
- **CUSTOM EDIT function**
  - You can confirm the total playing time while choosing the selections to be programmed. – Program edit (page 17)
  - The unit can program selections automatically to fit in a desired duration. – Time edit/Just edit (page 21)
  - You can stop the play, fading out at the time desired. – Time fade (page 23)
  - You can make a program by designating selections from different discs. – Multi-disc program (page 19)
  - You can locate the portion with the highest volume (the peak of the input level) to adjust the recording level – Peak search (page 24)

Safety precautions

On safety

- Operate the unit only on 120 V AC, 60 Hz.
- Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it will not be used for a long time. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.
- As the laser beam used in this compact disc player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

On operation

When the unit is not used, turn the power off, to conserve energy and to extend the useful life of your unit.

For detailed safety precautions, see the leaflet "IMPORTANT SAFEGUARDS".

If you have any questions or problems concerning your unit, please contact your nearest Sony dealer.

Table of Contents

Warning 2
Introducing this CD player 3
Safety precautions 3
Installing the CD player 4
  Notes on installation 4
Preparing the remote commander 4
  Installing batteries 4
Connecting the CD player 5
  Notes on connection 5
  Connecting to an amplifier without a digital input 5
  Connecting to a unit with a digital input 5
Location of controls 6
  Front panel 6
  Remote commander 7
Playing a disc 8
  Inserting a disc 8
  Playing the entire disc 9
  Locating a particular selection 10
  Locating a particular point in a selection 10
  Locating an index 10
  Information display 10
  Exact start of a particular selection – Auto cue 11
Playing only desired selections – Delete play 12
Playing in a random order – Shuffle play 13
Playing the beginning of all selections – Music scan .. 14
  Music scan delete play 15
Playing repeatedly – Repeat play 16
  Repeating selections 16
  Repeating a particular portion – A ↔ B repeat 16
Playing in a desired order – Program play 17
  Programming selections directry 17
Playing discs in a desired order – Multi-disc program 19
  Multi-disc programming 19
  Playing the multi-disc program 20
Designating the total playing time – Time edit/Just edit 21
Tips on editing tapes 23
  Fading in/Fading out 23
  Inserting a blank space between selections – Auto space 23
  Fading out at the desired time – Time fade 23
  Locating the portion with the highest volume – Peak Search 24
Timer activated playing 24
Maintenance 25
  Cleaning your unit 25
  Cleaning discs 25
Specifications 26
Troubleshooting guide 27

This indicates a function operated only from the remote commander.

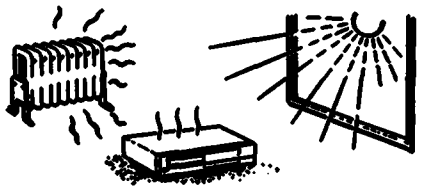
This indicates a function operated only on the main unit.

Installing the CD Player

Notes on Installation

- Place the unit in a location with adequate air circulation to prevent internal heat build up in the unit.
- Do not place the unit on a soft surface, such as a rug that might block the ventilation holes on the bottom.
- Do not install the unit:
  - near heat sources such as radiators or air ducts.
  - in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

Not this way.

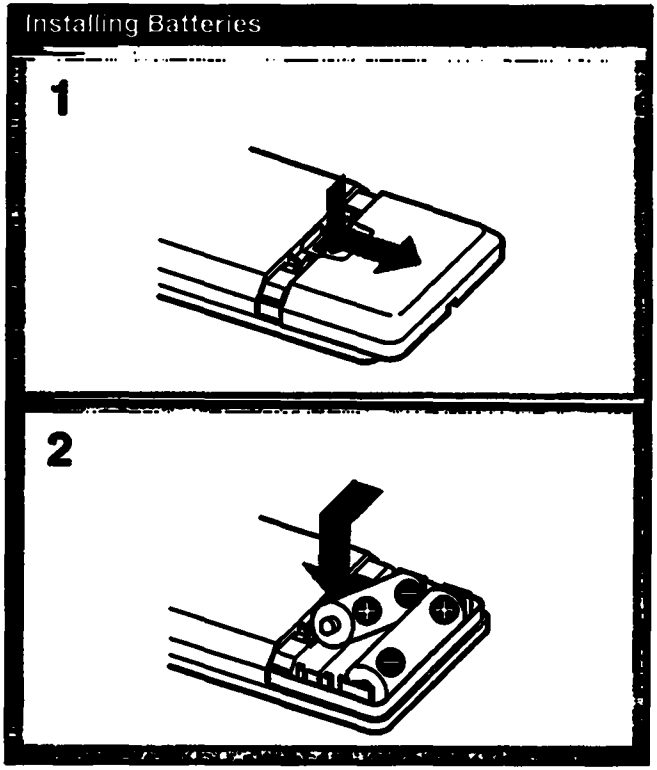


On moisture condensation

If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the unit. Should this occur, the player will not operate. In this case, remove the disc and leave the player turned on for about an hour until the moisture evaporates.

Preparing the Remote Commander

Installing Batteries



On battery life

- About half a year of normal operation can be expected when using the size AA (R6) batteries.
- When the batteries are run down, the remote commander will not operate the unit. In this case, replace both batteries with new ones.

Notes on the remote commander and remote control operation

- Keep the commander away from extremely hot or humid places.
- Avoid dropping any foreign objects into the commander casing, particularly when replacing the batteries.
- Avoid exposing the remote sensor to direct sunlight or lighting apparatus. Such exposure can cause a malfunction.
- To avoid damage caused by battery leakage and corrosion, remove the batteries when the commander will not be used for a long time.

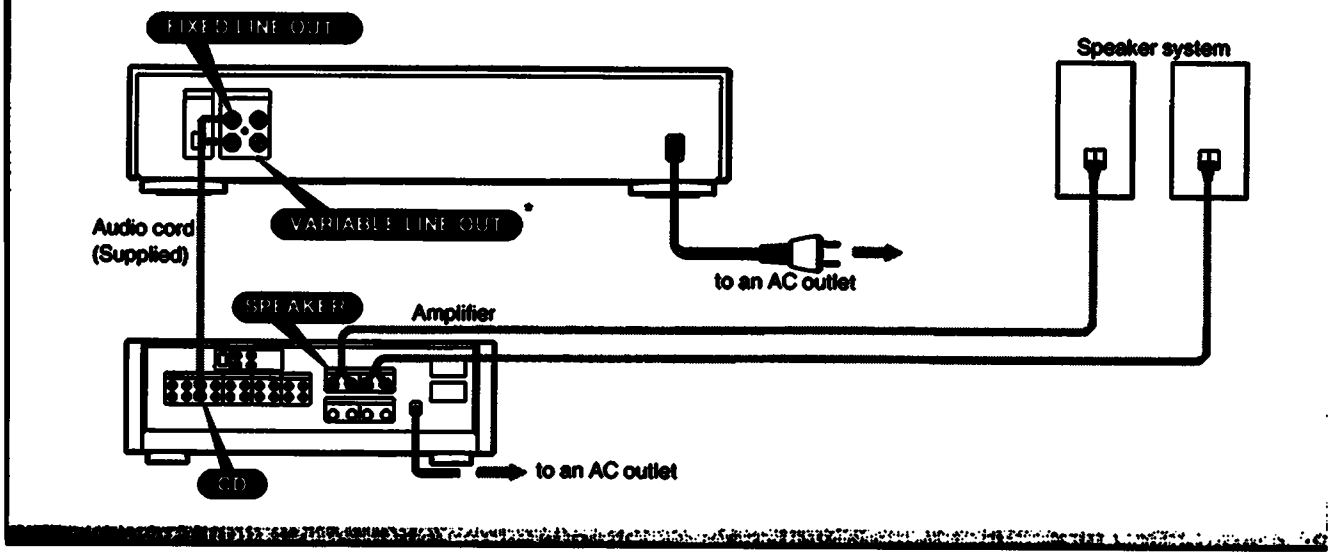
Connecting the CD Player

You can connect the unit with analog or digital signal depending on your amplifier or D/A converter.

Notes on Connection

- Turn off the power of each unit before making connections.
- Connect the AC power cord last.
- Be sure to insert the plugs firmly into the jacks. Loose connection may cause hum and noise.
- Leave a little slack in the connecting cord to allow for inadvertent shock or vibration.
- Cord plugs and jacks are color coded. Red plugs and jacks are for the right channel (R) and white are ones for the left chann (L).

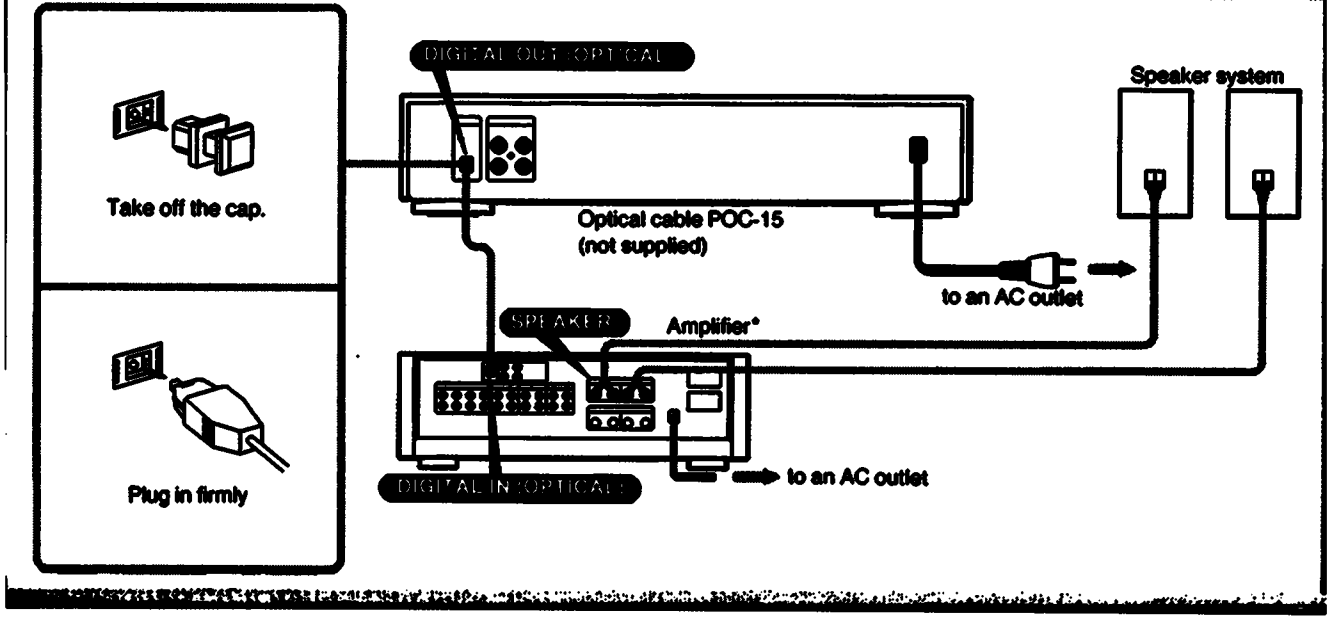
Connecting to an Amplifier without a Digital Input



When using the VARIABLE LINE OUT jacks

Output level can be adjusted with the LINE OUT/PHONE LEVEL control (or LINE OUT LEVEL +/− buttons on the remote commander). If the LINE OUT/PHONE LEVEL control (or are LINE OUT LEVEL +/− buttons on the remote commander) is turned (or are pressed) while recording, the recording level will change even though it is preset on the tape deck.

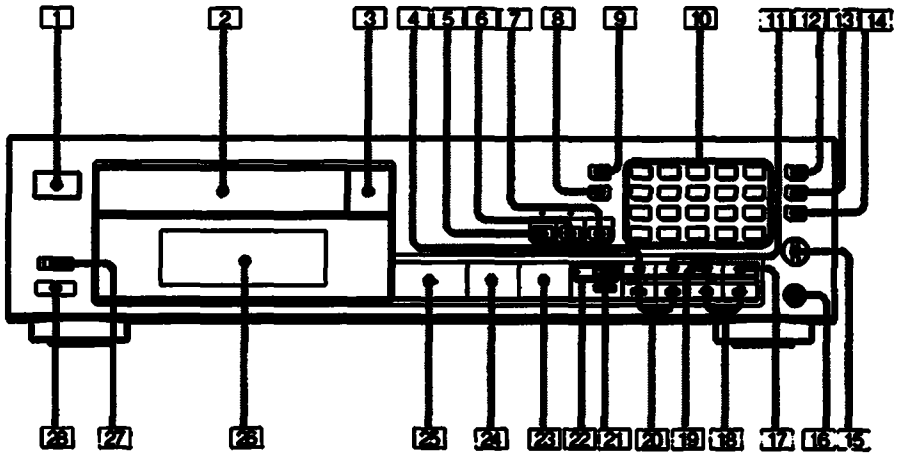
Connecting to a Unit with a Digital Input



You can connect a D/A converter or an amplifier equipped with a D/A converter.

Location of Controls

Front Panel

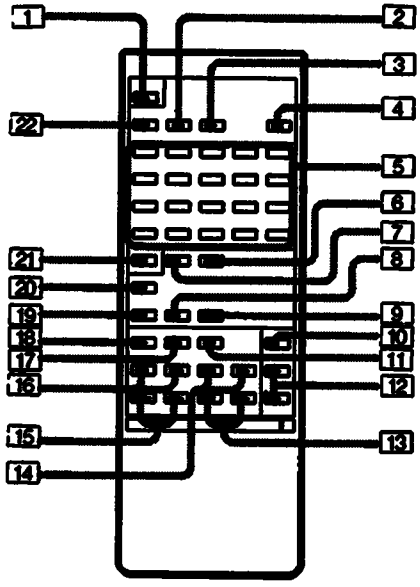


Refer to the pages indicated in ● for details.

1 POWER switch ●
2 Disc tray ●
3 ⏏ OPEN/CLOSE button ●
4 PEAK SEARCH button ●
5 CONTINUE button and indicator ●, ●, ●, ●
6 SHUFFLE button and indicator ●
7 PROGRAM button and indicator ●
8 TIME SET button ●, ●
9 EDIT/TIME FADE button ●, ●
10 Numeric buttons ●
11 REPEAT button ●
12 >20 (over 20) button ●
13 CHECK (program check) button ●, ●
14 CLEAR (program clear) button ●, ●, ●
15 LINE OUT/PHONE LEVEL control ●, ●
16 PHONES jack
17 MUSIC SCAN button ●
18 ◀◀ ▶▶ (manual search) buttons ●, ●
19 FADER button ●
20 I◀◀ ▶▶I (AMS*) buttons ●, ●
21 TIME button ●
22 A. SPACE (auto space)/A. CUE(auto cue) button and auto cue indicator ●, ●
23 ■ (stop) button ●
24 ▮▮ (pause) button ●
25 ▶ (play) button ●
26 Display window
27 TIMER switch ●
28 Remote sensor ●

* AMS is an abbreviation of Automatic Music Sensor.

Remote commander

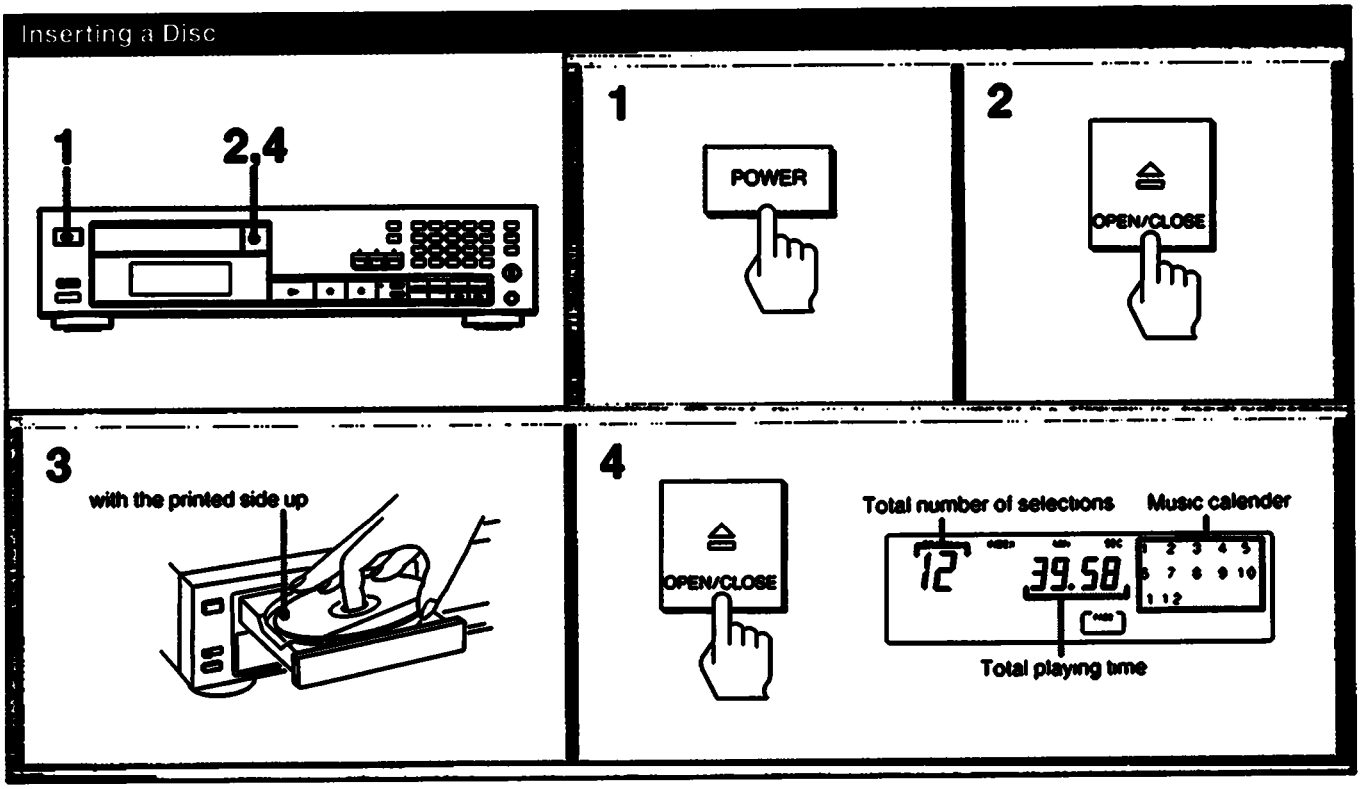


1 ⏏ OPEN/CLOSE button ●
2 SHUFFLE button ●
3 PROGRAM button ●
4 M.SCAN (music scan) button ●
5 Numeric buttons ●
6 CLEAR (program clear) button ●, ●, ●
7 CHECK button ●, ●
8 A ↔ B repeat button ●
9 A.SPACE (auto space)/A.CUE (auto cue) button ●, ●
10 FADER button ●
11 ■ (stop) button ●
12 LINE OUT LEVEL + / − (line out/headphone volume) buttons ●, ●
13 ◀◀ ▶▶ SLOW (low speed manual search) buttons ●
14 ◀◀ ▶▶ (manual search) buttons ●, ●
15 INDEX buttons ●
16 ⏮ ⏭ AMS buttons ●, ●
17 ⏸ (pause) button ●
18 ▶ (play) button ●
19 CLEAR/REPEAT (A ↔ B repeat clear/repeat) button ●
20 TIME button ●
21 >20 (over 20) button ●
22 CONTINUE button ●, ●, ●, ●

Playing a Disc

Before playing a disc, turn on the amplifier and set the input selector to the CD player position.

Inserting a Disc



To take out the disc
Press ⏏.

To play a 8cm (3-inch) CD
Place it on the inner circle of the tray. If the disc is provided with an adaptor, first remove it. Do not put a normal CD (12cm/5-inch) on top of an 8 cm CD.

Notes on handling discs

- To keep the disc clean, handle the disc by its edge. Do not touch the surface.

- Do not stick paper or tape on the disc.

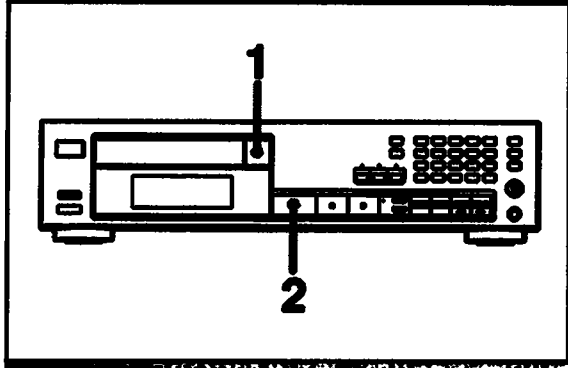
- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight as there can be a considerable rise in the temperature.
- After playing, store the disc in its case.

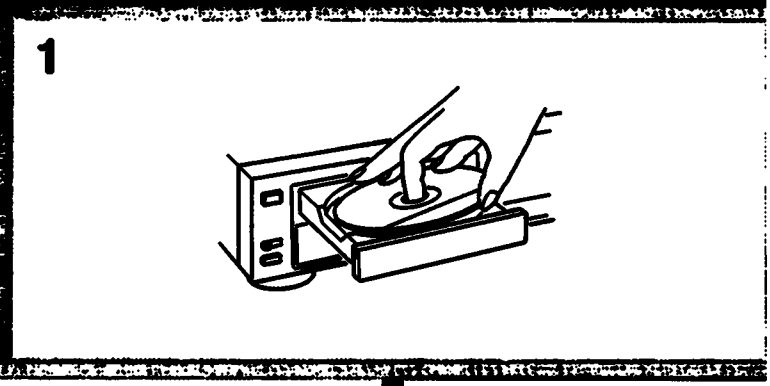
What is this indication?

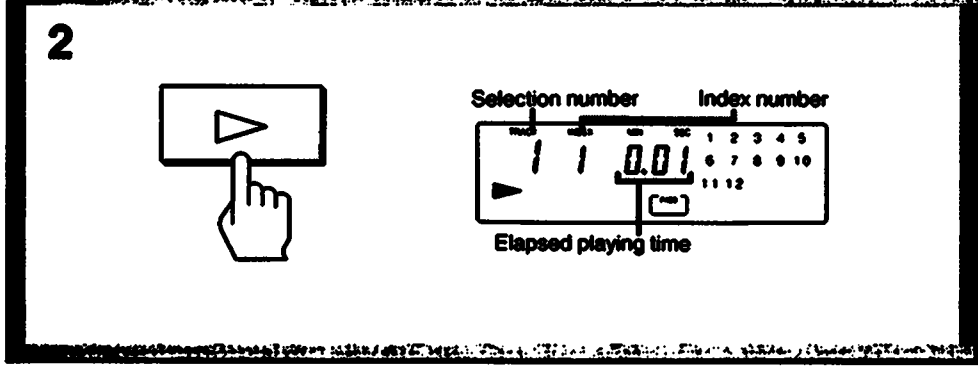
no dISC

This indication appears when there is no disc in the disc tray.

Playing the Entire Disc







To stop play

To stop for a moment during play, press ⏸.
Press ▶ or ⏸ again, to resume play.
To stop play, press ■.
To stop play and open the tray, press ⏏.

When listening with headphones

Connect the headphones and control the volume with LINE OUT/PHONE LEVEL control or LINE OUT LEVEL + / − of the remote commnader.

To control the volume

When you use VARIABLE, control the volume with LINE OUT/PHONE LEVEL control or LINE OUT LEVEL + / − of the remote commander. Press + of the remote commander to turn up the volume and press − to turn down the volume. When you press + or −, the LINE OUT/PHONE LEVEL control rotates automatically.

Caution on adjusting volume

Do not turn up the volume while listening to a portion with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level portion is played.

Playing a Disc

Locating a Particular Selection

You can locate the beginning of a desired selection.

To locate sequentially

To locate the beginning of the current or preceding selection

- Press I◀◀ as many times as required.
- Keep I◀◀ pressed to skip selections.

To locate the beginning of a succeeding selection

- Press ▶▶I as many times as required.
- Keep ▶▶I pressed to skip selections.

To locate directly

Press one of the numeric buttons (1 to 20) to enter the desired selection number.

If a selection number is greater than 20, use the >20 *and* 1 *to* 10 *buttons.* 10 *functions as the figure 0.*

e.g. To play from selection No.22 Press >20 2 2
To play from selection No.30 Press >20 3 10

Locating a Particular Point in a Selection

You can locate a particular point in the disc during play.

To search quickly while monitoring the sound

Forward locating at high speed

Keep ▶▶ pressed during play and release at the desired point.

Reverse locating at high speed

Keep ◀◀ pressed during play and release at the desired point.

To search quickly by observing the display

Press ▮▮, then keep ◀◀ or ▶▶ pressed. The search speed will increase, but there will be no sound. Find the desired point by observing the display.
Press ▶ or ▮▮ again at the desired point.

To search slowly while monitoring the sound

Press ◀◀/▶▶ SLOW during play and release at the desired point.

When you press I◀◀ during play

The unit locates the begining of the selection.

When ▽▽ is displayed

If you continuously press ▶▶ at the end of the disc, "▽▽" appears in the window. Press ◀◀ or I◀◀ to return to normal indication.
If you continuously press ◀◀ at the beginning of the disc, play begins automatically from the first selection.

Locating an Index

This function is only possible with a disc on which index numbers are recorded.

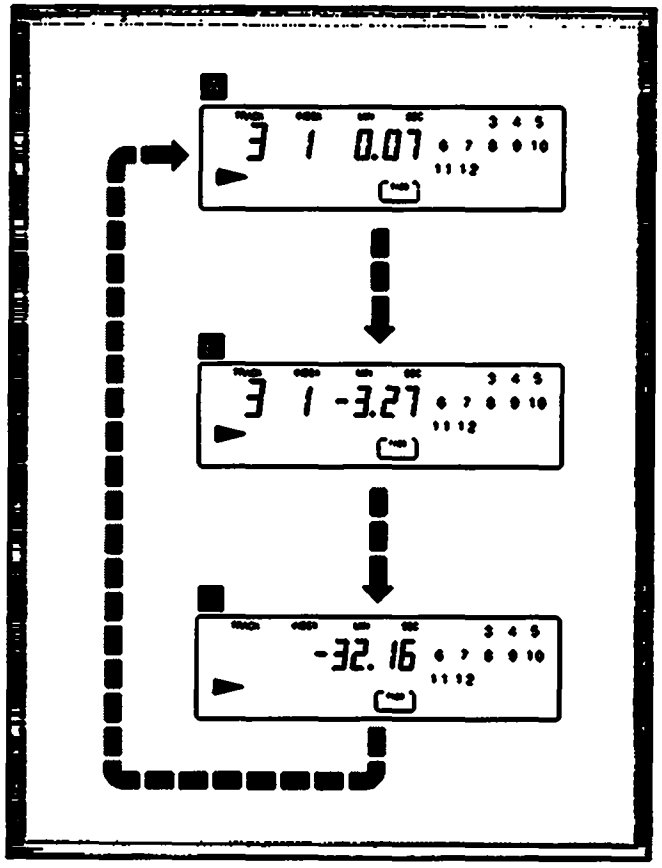
Press 4 or ▬▶ to locate the desired index number.
The selected index number appears in the display window.

What is an index?

This is a number assigned to a section of a selection (for example, to a movement in a symphony) to allow that section to be located easily.

Information Display

Each time you press TIME during play, the display changes to give you the following information.



A Elapsed playing time
B Remaining time in a selection
If the current selection number is over 20, "– – . – –" is displayed.
C Remaining time of the disc

If you press TIME in stop mode

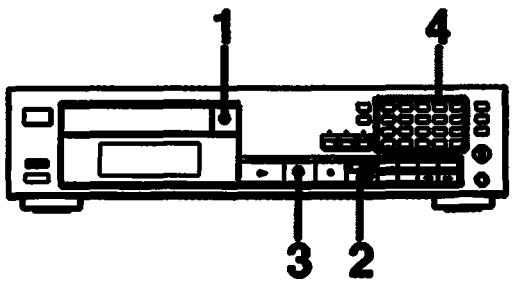
The total time and total number of selections will be displayed.
Nothing will change if a program is stored.

Note

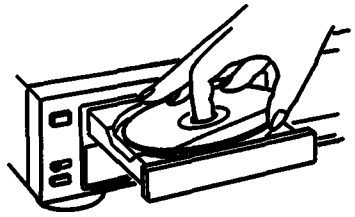
The time display mode selected with the TIME button will not change until the power is turned off.

Exact Start of a Particular Selection – Auto Cue

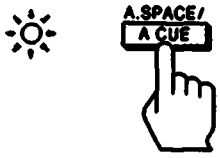
This function enables you to play a particular selection quickly exactly from the point where audio signals are actually recorded.



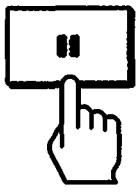
1



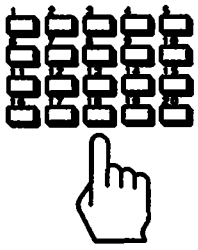
2 Press twice so that auto cue indicator lights up.



3

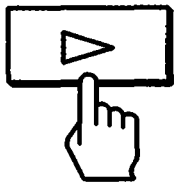


4 Press a selection number.



The time display will go out while the player is searching for the beginning of your selection. When the selection has been cued, the time display will come back on.

5

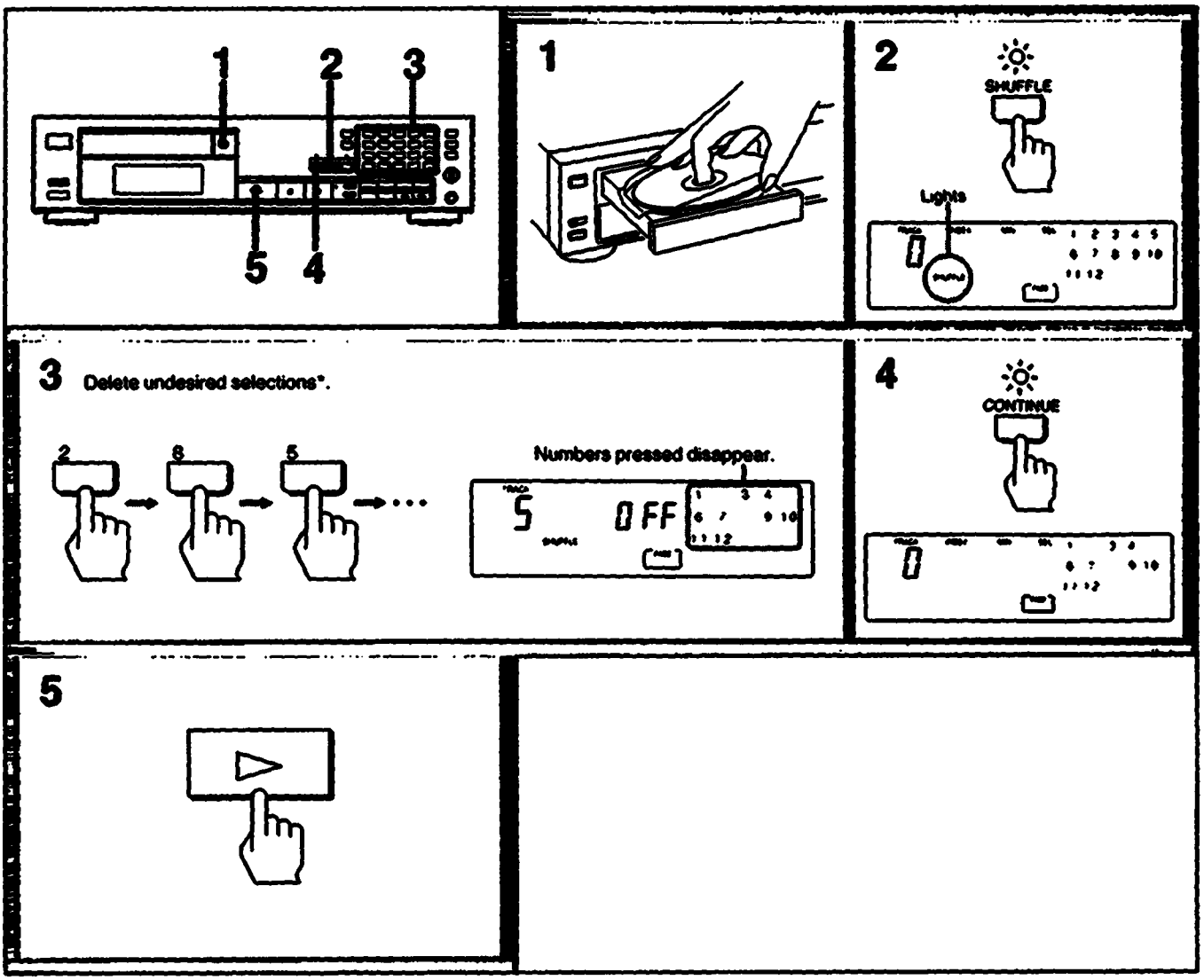


To cancel the auto cue function
Press A.SPACE/A.CUE. The auto cue indicator is turned off.

Note
The auto cue may not function correctly with such a selection as follows.
– If a noise is recorded before the selection actually starts.
– If the selection begins fading in slowly.

Playing Only Desired Selections – Delete Play

You can delete undesired selections and play the remaining selections in the continuous play mode (as well as in the shuffle play mode – see "delete shuffle play" on page 13)



* To choose a selection number over 20, see page 10.

To delete a selection during delete play
Press CLEAR while your undesired selection is being played. The next selection is played.

To restore a deleted selection while "SHUFFLE" is illuminated, press the numeric button for that selection. "On" will be displayed in the window.

To restore all the selections you have deleted, press ■ during stop mode.

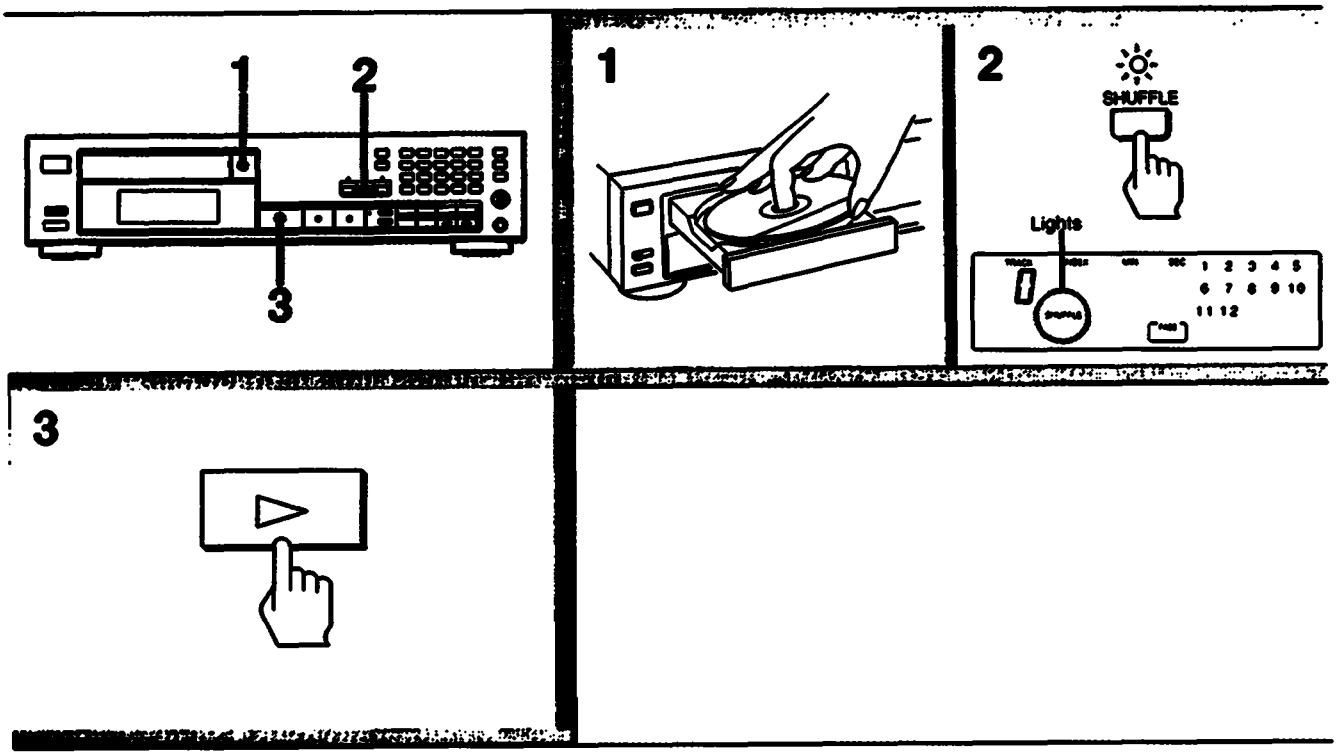
When delete play ends
Selections except deleted ones will be restored.

If you press SHUFFLE during delete play, your selections will be played in the delete shuffle play mode.

If your disc has more than 20 selections
The remaining time of the disc appears as "– – . – –".

Playing in a Random Order – Shuffle Play

'ou can have the selections played in a random order. The unit will play all the selections, or just the selections you desire.



ɔ stop playing
'ess ■.

ɔ cancel shuffle play
'ess CONTINUE and put the unit into continuous play ode. "SHUFFLE" disappears from the window.

hat is this indication?

is indication appears while the unit is "shuffling" the selections.

you press SHUFFLE during play
uffle play begins from the current selection.

your disc has more than 20 selections.
e total remaining time is displayed as "– – . – –".

To play only the desired selections in a random order – Delete shuffle play

Delete the undesired selections before or during play.

To delete a selection, press the numeric button for that selection. "OFF" will be displayed in the window. You can also delete a selection being played by pressing CLEAR. To choose a selection number over 20, see page 10.
When selections have been deleted before playing, the remaining selections can be played by pressing ▶.

To restore a selection which you have deleted, press the numeric button for that selection. "On" will be displayed in the window.

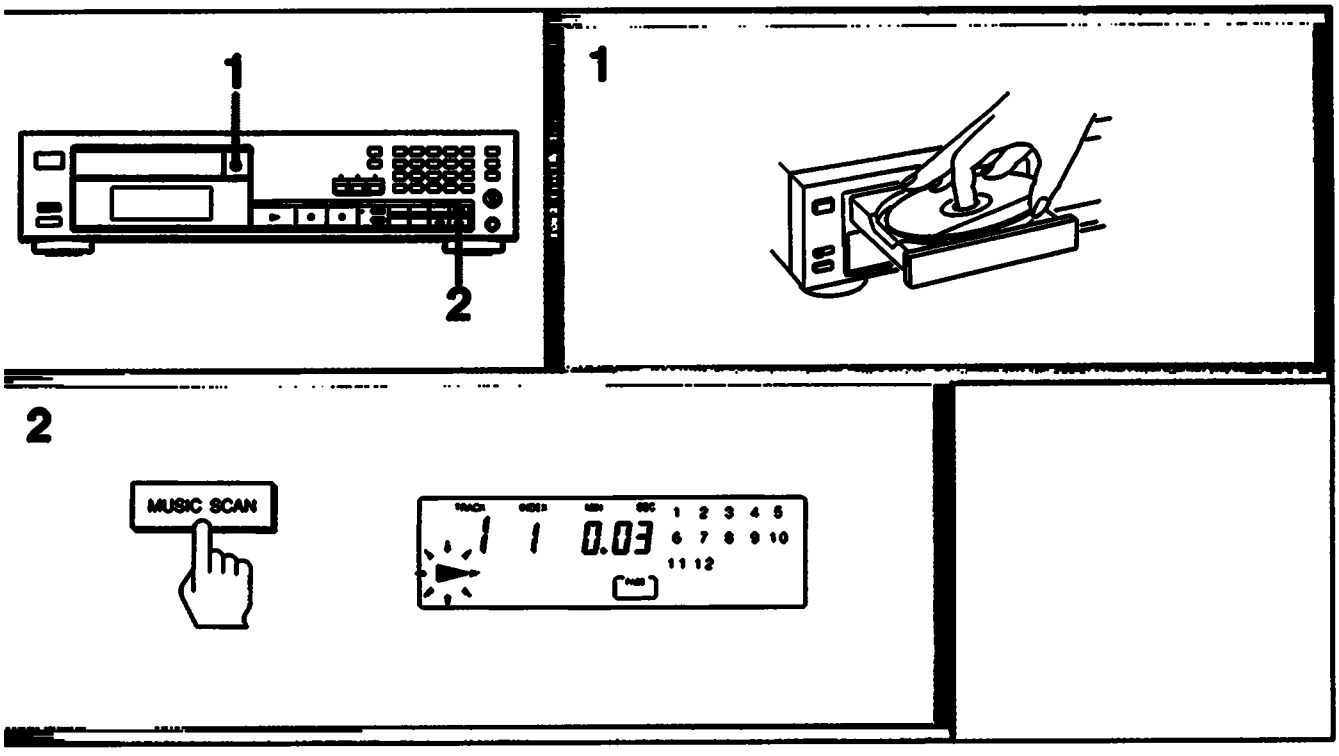
To restore all the selections you have deleted, press ■ during stop mode.

If you press CONTINUE during delete shuffle play, your selections will be played in the delete play mode.

When delete shuffle play ends
The unit will be ready to play the same remaining selections in a different order.

Playing the Beginning of All Selections – Music Scan

ou can play the first 12 seconds of all selections consencutively with the MUSIC SCAN (or M.SCAN on the remote ommander) button in any play mode. This is convenient for deciding which selection to play or to check the order of selections r program play.



ach selection will be played for 10 seconds and then fade ut for 2 seconds. After all selections are played, scan play ill end.

o start playing immediately
ress ▶ before the selection begins to fade out. If you press ▸ while fading out, the unit enters the pause mode.

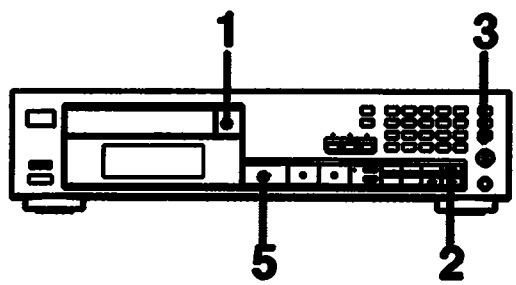
o stop music scan during scanning
ress ■.

If you press FADER during scan play
The selection will fade out from that point, or fade in if you press FADER while the selection is fading out.

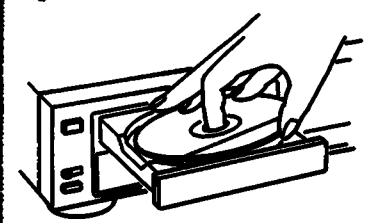
When you press ◀◀/▶▶ during scan play
Music Scan will be disengaged.

ote
/hen you press MUSIC SCAN (or M.SCAN on the remote ommander) again, while playing the beginning of a selection, laying will be extended for another 12 seconds.

Music Scan Delete Play



1



2 During stop mode

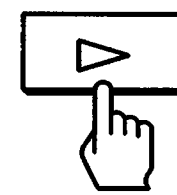
3 At the beginning of an undesired slection.

The number for the selection disappears.

The next selection will be played.

4 Repeat step 3 to delete other undesired selections.

5 After all the selections have been played.



This function can only be operated during continuous play or shuffle play.

When music scan delete play ends
Selections except deleted ones will be restored.

To restore the deleted selections
Press ■ during the stop mode.

Playing Repeatedly – Repeat Play

You can choose between two different repeat play modes. One repeats selections in the current play mode, the other repeats any particular portion you like.

Repeating Selections

To repeat all selections
Press REPEAT once.
The unit will repeat in the current play mode after completing the first play.

Play mode	Selections to be repeated
Continuous play (page 9)	All the selections
Program play (page 17)	All the programmed selections in the same order
Shuffle play (page 13)	All the selections that the unit reshuffles
Delete shuffle play (page 13)	All the remaining selections that the unit reshuffles
Delete play (page 12)	All the remaining selections

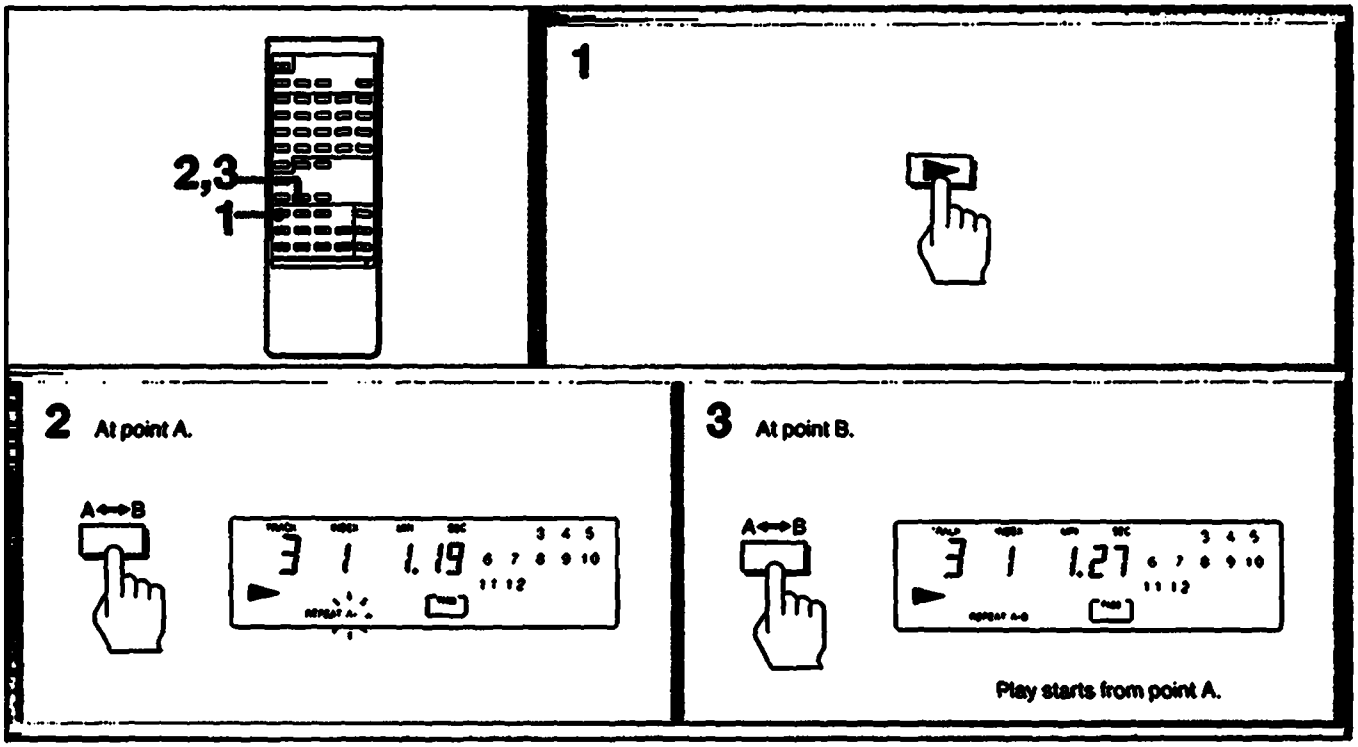
To repeat the current playing selection (only during continuous or delete play)
Press REPEAT again.
(Not operable during shuffle, delete shuffle, or program play.)

To cancel repeat play
Press REPEAT again.
In continuous or delete play mode, "REPEAT 1" disappears.
In any other play mode, "REPEAT" disappears.

Note
Repeat play does not function during multi-disc program play.

Repeating a Particular Portion – A · · B Repeat

You can repeat a portion on the disc by designating the starting point (A) and the ending point (B).



To cancel A ⟷ B repeat
Press CLEAR/REPEAT (or REPEAT on the main unit).

When you designate A ⟷ B repeat during shuffle or program play
You cannot designate point A and B in two different selections.

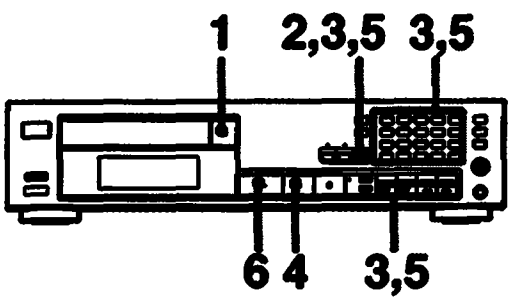
Going back to point A from any point on the disc
Simply press ▶. When point A is stored, you can go back there in any play mode. You need not designate point B.

While playing a multi-disc program
A ⟷ B repeat function is not utilizable

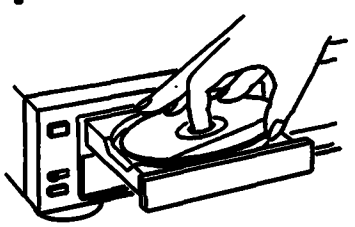
Playing in a Desired Order – Program Play

You can make a program by designating up to 24 selections in the order you want them to be played. At the same time, you can adjust the total playing time of the program. The unit will play the disc according to your program. This function is convenient for editing tapes.

Programming Selections Directly

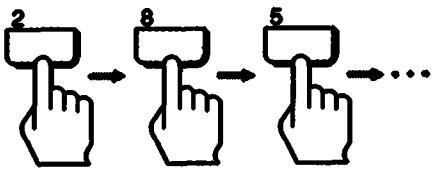


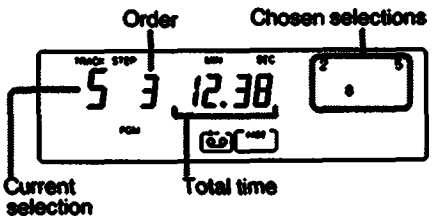
1



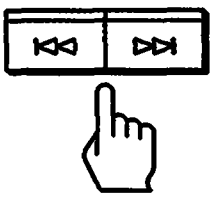
2

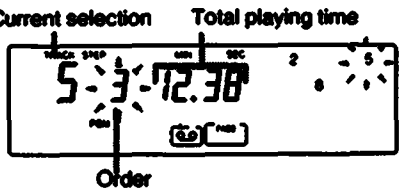
3 **Programming selections directly**
Press selection number in desired order.





Designating the playing order – Program Edit
Choose a selection and check the time.



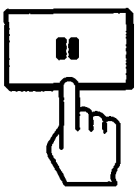


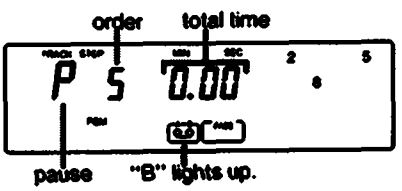
Press I◀◀/▶▶I repeatedly to choose an appropriate selection.

A satisfactory selection has been choosen.

The selection is stored, and the blinking number in the window turned to be illuminated.

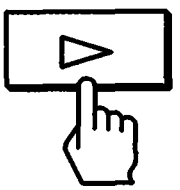
4 If you program the selections for side B, insert a pause.





5 Program the selections for side B by repeating step 3.

6 The selections for side A will be played.



Playing in a Desired Order – Program Play

You can make a program by designating up to 24 selections in the order you want them to be played. You can make a program for both sides (side A and side B) of the tape at one time. The unit will play the disc according to your program.

To play the selections for side B
When the selections for side A have been played, the unit will pause. ("B" lights up.)
Set the tape to the beginning of side B, then press ▮▮ or ▶.
The selections for side B will start playing.

To stop playing
Press ■.
You can play the same program repeatedly as long as you do not cancel program play or erase the program.

To cancel program play
Press CONTINUE and return to the continuous playing mode.
The program will be erased.

To erase the entire program
Press ■ once during stop; twice during play.
The program is also erased when you turn off the unit.

When program play ends
Each time a selection play ends, the corresponding selection number in the display window disappears. The program itself is not erased.

To make a program for editing a tape
You can insert a pause in your program. Use this function to make a program for both sides of the tape at one time.

1 Choose selections for side A.
2 Press ▮▮. "P" will be displayed in the window and the total playing time will be reset to 0.

"B" lights.
3 Choose selections for side B.

When you start playing, the selections for side A will be played and then the unit will pause with the chosen selections for side B illuminated in the window. Set the tape to the beginning of side B, then press ▶ or ▮▮. The selections for side B will be played.

To check your program
Press CHECK. The first selection in the program will be displayed.
When CHECK is pressed during play, the selection being played will be displayed.
Each time you press CHECK, the next selection in the program will be displayed. When CHECK is pressed after the last selection, "End" appears and the display will soon return to the initial status.

To change your program
You can make the following changes before starting play.

To erase the last selection, press CLEAR.
Each time you press CLEAR, the last selection in the program will be erased.

To add a selection to the end of the program, just press the numeric button for that selection. You can add a selection also during play or pause.

To delete a selection, press CHECK repeatedly until the undesired selection is displayed. Then press CLEAR.
You can not delete the selection being played.

To change the order, press ■ during stop to erase the program. Then repeat the programming procedure from the beginning.

To adjust the blank spaces between selections
In a program, if you do not change the order of selections, the spaces between those selections remain the same as on the disc.
You can make all the blank spaces 3 seconds long. See page 23 for details.

When the power is turned off while playing a programmed selection
The program is erased.

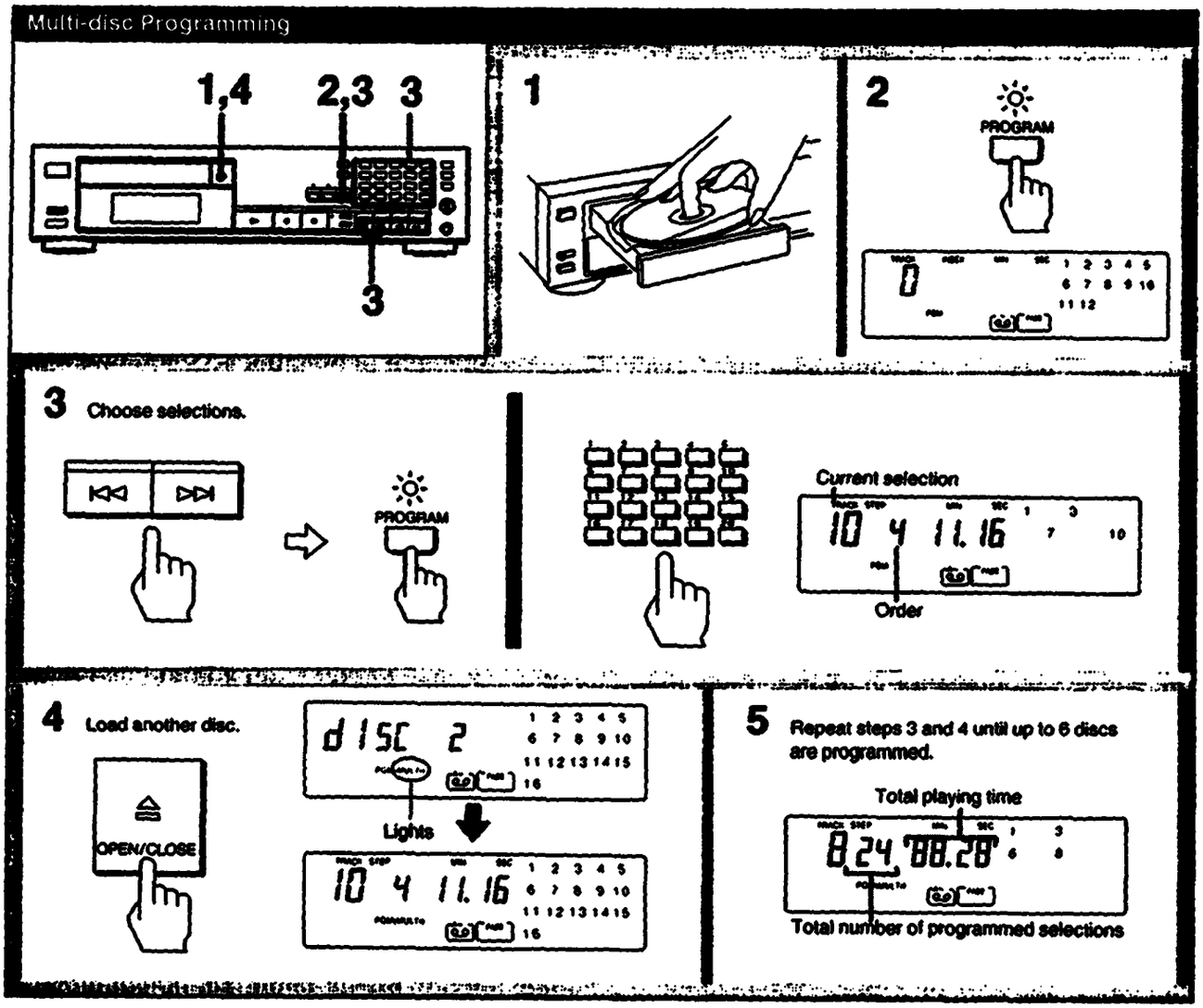
When pressing PROGRAM during playing
The current playing selection will be the first one.
You can program during playing.

If "--.--" is displayed instead of the actual time
– you have programmed a selection number over 20.
– the total time has exceeded 100 minutes.

To check the remaining time
Press TIME once to see the remaining time of the selection being played; twice to see the total remaining time; once more to return to the initial display.
If you have inserted a pause, the display shows the remaining time until the pause.
If you have programmed a selection number over 20, "--.--" is displayed instead of the actual time.

Playing Discs in a Desired Order – Multi-disc Program

A maximum of 24 selections can be programmed from up to 6 discs in the desired order. At the same time, you can adjust the total playing time of the program. This function is convenient for editing tapes.



You can program the same disc as many times as you want until the total number of programmed selections reaches 24.

To play the program
See page 20.

To make a program for editing a tape
You can insert a pause in your program by pressing ▮▮. Use this function to make a program for both sides of the tape at one time. See page 17 for details.

To check your program
Press CHECK. The first selection and the disc number of the program will be displayed. See page 18 for details.

If you insert the seventh disc
"dISC FULL" appears in the window.

Note
Repeat play does not function during multi-disc program play.

To change your program
You can make the following changes before starting play.

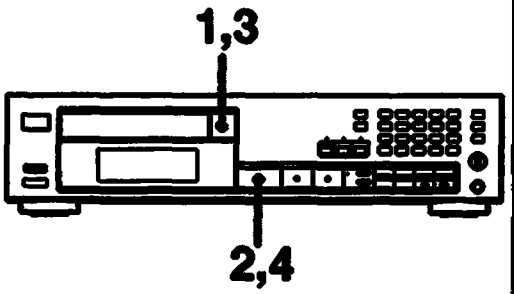
To erase the last selection, load the last programmed disc and press CLEAR.
Each time you press CLEAR, the last programmed selection from the disc will be erased. To continuously erase the selections, repeat the same procedure, loading the discs in the reverse order you have programmed.
If a pause has been programmed, the selections programmed before the pause can not be cleared.

To change the order, press ■ during stop to erase the program. Then repeat the programming procedure from the beginning.

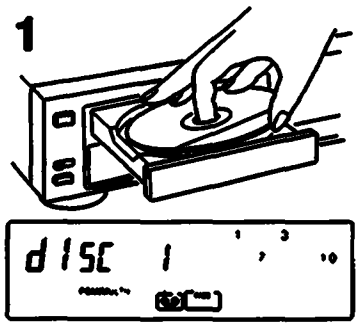
To adjust the blank spaces between selections
You can make all the blank spaces 3 seconds long. See page 23 for details.

Playing Discs in a Desired Order – Multi-disc Program

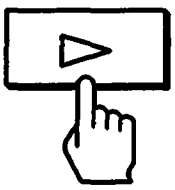
Playing the Multi-disc Program



1

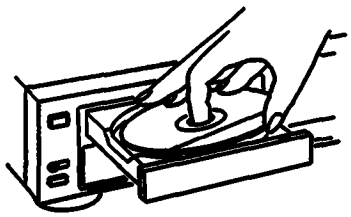


2

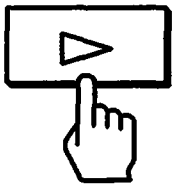


When play is over, "disc 2" blinks.

3 Load the second disc.



4



5 Load discs in the programmed order, repeating steps 3 and 4.

When the last selection is over, "disc End" appears.

To stop playing
Press CONTINUE and put the unit into continuous playing mode.
The program will be erased.

When the program has been played
The unit will be ready to repeat the same program again.

If you press ▶, just after changing discs from the first to the second for programming, multi-disc program is cancelled and the continous play starts. If you press ▶ just after changing discs from the second to third, third to fourth, and so on, ▶ does not function.

If you insert a disc in an incorrect order
The disc will be played even in an incorrect order, unless it has already been played.

If "– –. – –" is displayed instead of the actual time
– you have programmed a selection number over 20.
– the total time has exceeded 100 minutes.

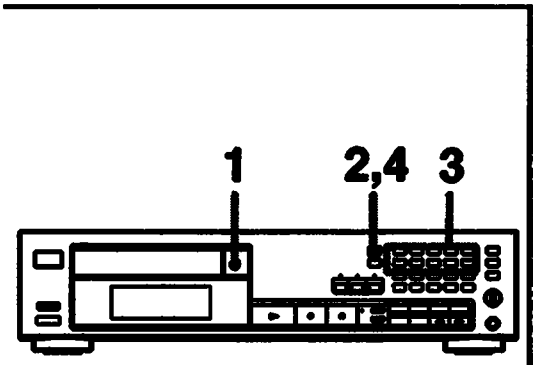
To erase the entire program
Press ■ once during stop; twice during play.
The program is also erased when you turn off the unit.

To check the disc number inserted
Press TIME during stop mode. The disc number appears in the window.

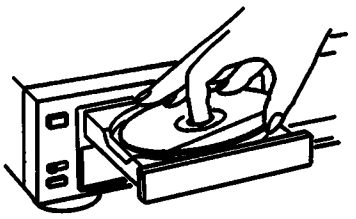
To check the remaining time
Press TIME once to see the remaining time of the selection being played; twice to see the remaining time of the disc being played; once more to return to the initial display.
If you have programmed a selection number over 20, "– –. – –" is displayed instead of the actual remaining time of the disc.

Designating the Total Playing Time – Time Edit/Just Edit

ou can designate a time and the unit will make 2 different programs of selections each fitting within that period. Use this nction, by designating the length of your tape, for editing both sides of a tape.
here two types of editing: Time edit and just edit.
ime edit – sets the playing time of each program within the designated time automatically by choosing selections in numerical order.
ust edit – sets the playing time of each program exactly (if impossible, approximately) with the designated time automatically by choosing selections without respect to numerical order.
ou can use 2 different discs for programming selections for side A and B. In addition, you can choose selections from another isc to utilize the remaining time of each program. Programs can contain up to a total of 24 selections.
ou can also program desired selections by priority. In this case, total playing time of desired selections need not to be ubtracted from the designated time.



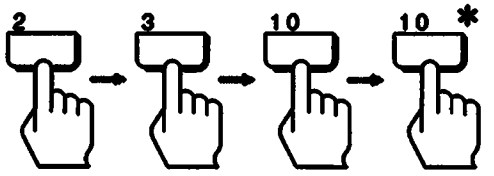
1



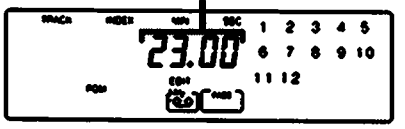
2

Time edit — Press once.
Just edit — Press twice.
"JUSt" is displayed.

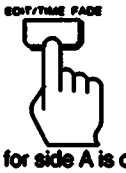
3 Designate the length of one side of your tape.



Designated duration

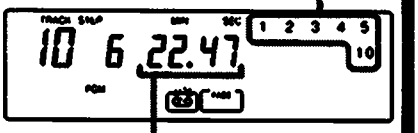


4



The program for side A is completed.

Chosen selections



Total playing time

If "LINK" blinks in stead of "B" in the tape indicator, see below.

5 Press EDIT/TIME FADE once more while "B" in the tape indicator is blinking, to make a program for the other side of you tape, if "LINK" blinks. See below.

Press 10 for "0".
You need not press numeric buttons for seconds, unless required.

"LINK" blinks in steps 4 and 5
here are some selections whose playing times are shorter an the remaining time of each program, after all the election on the disc are programmed.
_INK" and the selection numbers will blink. You can add e selections by pressing EDIT/TIME FADE once more, or e numeric buttons for these selections to utilize the maining time.

While "LINK" is blinking, you can change the disc to another one, and then can add selections from the new disc whose plyaing times are shorter than the remaining time. The unit will indicate the selections to you by blinking their selection numbers in the display window.

If you replace the disc with a new one after completing each program
"LINK" will start blinking if the new disc has selections whose playing times are shorter than the remaining time of the program.
You can add these selections.

If "EDIT" does not disappear from the display window
Press ■. "EDIT" will disappear.
When the playing time for side B is exactly set with the designated time, "EDIT" disappears automatically. Even if "EDIT" still lights up in the display window, you can start playing.

If the unit takes time to carry out the just edit
Press ■. The just edit will be disengaged.

If your tape has a standard length
You can designate the tape length easily with the TIME SET button.
Press TIME SET in step 3 in the procedure on page 21. Each time you press TIME SET, the display changes to give you the following durations:

HALF → C-46 (23.00) → C-54 (27.00) → C-60 (30.00) →
↑ --.-- ← C-90 (45.00) ← C-74 (37.00) ←

When you select HALF, the playing time of each program is set to a half of the total playing time of the compact disc. However the programming for the time edit and the just edit are performed in different ways.
Time edit – in the nummerical order of the original disc, divides all the selections of the disc roughly into two programs.
Just edit – without respect to the nummerical order of the original disc, makes two programs with the almost same playing time (half of the total playing time of the disc), by calculating the amount of playing times of programmed selections.

To play the program
Press ▶.
The selections for side A will be played and then the unit will pause. Set the tape to the beginning of side B, then press ▶ or ▮▮. The selections for side B will be played.

To stop playing
Press ■.
You can play the same program repeatedly as long as you do not cancel the edit or erase the program.

To cancel the edit
Press CONTINUE and put the unit into continuous play mode.
The program will be erased.

To erase the entire program
Press ■ once during stop; twice during play.
The program is also erased, when you turn off the unit.

To include desired selections in the program
1 Make your own program of desired selections.
See page 17 for instructions.
2 Follow the procedure on page 21.
Simply designate the length of your tape; you need not subtract the length of your program. The unit will place your selections at the beginning of its program and add other selections to fit in the remaining time.

To check the program
See page 18.

Notes
- HALF cannot be set on a disc with more than 20 selections
- HALF cannot be selected when you want to designate your desired selections prior to programming for the time edit.

If your disc has more than 20 selections
Selections over number 20 cannot be programmed with the time and the just edit function; use the programming procedure on page 17.

To designate a different time for each side
Execute steps 1 to 4 on page 21, then press ▮▮. Then execute steps 2 to 4 for the other side.

If you have included desired selections in the program
The selections of your choice will be replaced with other ones for the unit to fit the program as close to the designated period as possible.

Tips on Editing Tapes

The following functions are convenient for editing your own tapes.
Fade in/Fade out and Time Fade cannot be operated when the DIGITAL (optical) OUT is used for connections.

Fading in/Fading out

You can have the play fade in or fade out from 2 to 10 seconds.

To designate the fading duration
1. Press FADER during stop mode.
2. Designate the fading duration within the range of 2 to 10 seconds by pressing ◀◀ or ▶▶.

No designation makes the fading duration 5 seconds.

To end the play fading out
Press FADER when you want to start fading out.
"▮▮▬▶" flashes in the window, and play fades out for the designated duration and enters pause mode.

To restart the play fading in
Press FADER. "◀▬▮▮" flashes in the window, and play fades in for the designated duration.

Inserting a Blank Space between Selections – Auto Space

You can insert a 3-second blank space between each selection. The blank space enables you to locate selections when using a tape deck with automatic selection search function.

Before starting play, press A. SPACE/A. CUE once so that "AUTO SPACE" is displayed in the window.
A blank space of approximately 3 seconds will be inserted between each selection.

To cancel the auto space function
Press A.SPACE/A.CUE so that "AUTO SPACE" disappears from the window and that the auto cue indicator lights up.
(See page 11.)

Fading Out at the Desired Time – Time Fade

You can have the play fade out at the end by designating the play duration. Once the time fade is set, it functions twice for editing both sides of a tape. You can change discs without cancelling this function and use it in any play mode.

1 **Press EDIT/TIME FADE three times during stop mode, (or press it once in pause mode).**
"TIME FADE" and "A" in the tape indicator displayed in the window.

2 **Set the desired play duration, using either the TIME SET button or numeric buttons.**

a) **TIME SET button – Useful when using commercial tapes (46-, 54-, 60-,74- and 90-minute tapes).**
Each time you press TIME SET, the play duration for one side of the tape is displayed as follows.

HALF → C-46 (23.00) → C-54 (27.00) → C-60 (30.00) ↓
↑ --.-- ← C-90 (45.00) ← C-74 (37.00) ←

b) **Numeric buttons (1 – 10) – Useful when setting the time for one side of the tape as you want. (See step 3 on page 21.)**
You need not press buttons for the seconds, unless required.

3 **To start play, press ▶.**
Before the unit enters the pause mode at the set time with "B" lit in the tape indicator, play starts to fade out from 2 to 10 seconds according to the fading duration you have designated.

To start play for the other side of the tape
Press ▶, ▮▮, or FADER. (Pressing FADER starts the play fading in.)
When this play ends, time fade is cancelled.

If you want to start the play fading in
1 **Press ▮▮.**
The unit enters pause mode.
2 **Press EDIT/TIME FADE once.**
"TIME FADE" is displayed.
3 **Set the desired play duration, following step 2 above.**
4 **To start play, press FADER.**
Play will start fading in and end at the set time fading out.

To cancel time fade
Press EDIT/TIME FADE again.
Time fade is also cancelled when ◀◀/▶▶ or FADER is pressed during play.

To display the remaining time until the set time
Press TIME twice.

If PEAK SEARCH is pressed after setting time fade, **time fade is released but peak search is kept active.**

Tips on Editing Tapes

Locating the Portion with the Highest Volume – Peak Search

You can locate the portion with the highest input level of the compact disc to adjust the recording level.

Before starting play, press PEAK SEARCH.
"PEAK" appears in the window and starts blinking as the peak search begins functioning.
It takes time for the unit to carry out the peak search. Upon completing the search, the unit starts repeating the portion with the peak volume.

While the unit is repeating the peak portion
– Press ▶ to start play from the first selection.
– Press ▮▮ to put the unit into pause mode at the beginning of the first selection.

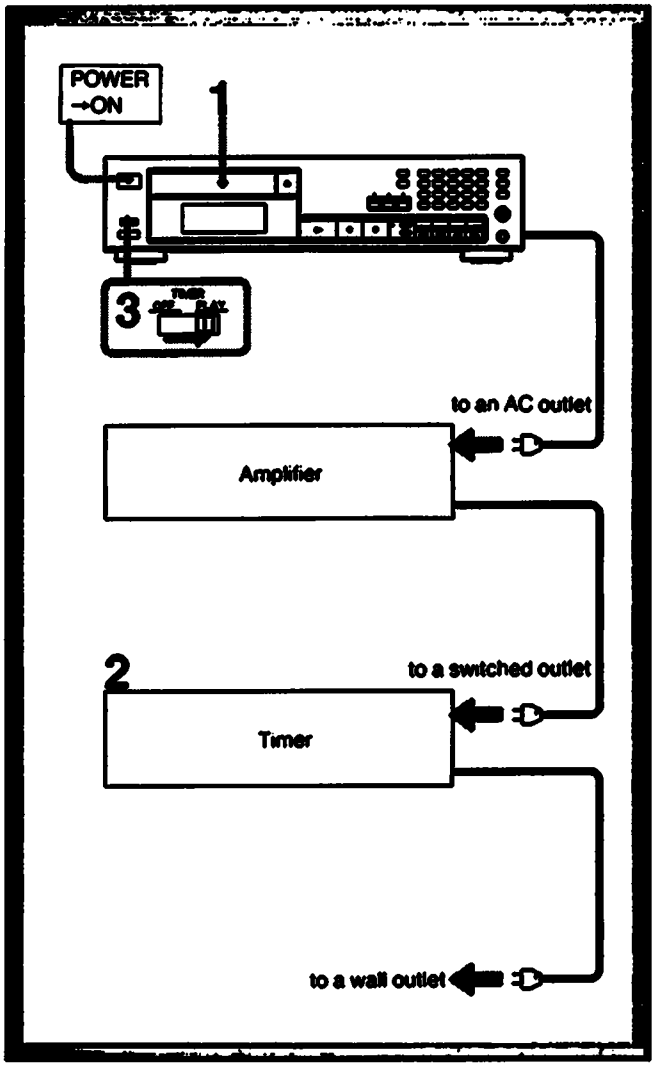
To cancel the peak search.
Press ■. "PEAK" disappears from the window.

On peak search
The unit scans input levels of the whole disc and determines the peak (maximum input level) among them. The peak determined with this functions is sometimes slightly different from the real one. In addition, portions determined as a peak vary each time this function is carried out on the same disc. The difference between the determined and the real peak is however, negligible and will not prevent you from adjusting the recording level.

If you press PEAK SEARCH before delete shuffle or program play
The unit scans the input levels of the chosen selections only.

Timer Activated Playing

By connecting a commercially available timer, disc play can be started at any desired time.



1 Insert a disc in the tray.

2 Set the timer.

3 Set TIMER to PLAY.

The unit will start playing at the time preset by the above procedures.

Keep the POWER switch depressed on the player
When the timer is set, the power of the player will be cut off. However, be sure to leave the POWER switch on.

When the timer-activated play ends
Be sure to set TIMER to OFF. If the TIMER switch is left at PLAY, the unit will automatically start playing the next time the power is turned on with a disc in the tray.

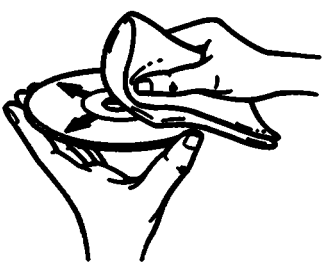
Maintenance

Cleaning Your Unit

Clean the cabinet, panel and controls with a soft cloth lightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder or solvent such as alcohol or benzine.

Cleaning Discs

When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.



Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for analog discs.

Specifications

Compact disc player

Frequency response	2 Hz - 20 kHz ± 0.5 dB
Signal-to-noise ratio	More than 106 dB
Dynamic range	More than 96 dB
Harmonic distortion	Less than 0.0027%
Channel separation	More than 100 dB

Outputs

LINE OUT (FIXED) (phono jacks)	Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms
LINE OUT (VARIABLE) (phono jacks)	Output level max. 2 V (at 50 kilohms) Load impedance over 50 kilohms
DIGITAL OUT (OPTICAL) (optical output connector)	Wave length 660 nm Output level − 18 dBm
PHONES (stereo phone jack)	Output level max. 10 mW Load impedance 32 ohms

General

Power requirements	120 V AC, 60 Hz
Power consumption	12 W
Dimensions (approx., including projections)	430 • 110 ↗ 280 mm (w/h/d) (17 x 4 3/8 x 11 1/8 inches)
Weight (approx.)	4.4 kg (9 lbs 12 oz)

Supplied accessories

Audio cord	1 (2 phono plugs - 2 phono plugs)
Remote commander	1
AA (R6) batteries	2

Remote commander RM-D791

Remote control system	Infrared control
Power requirements	3 V DC with two size AA (R6) batteries
Dimensions	Approx. 62 • 20 • 175 mm (w/h/d) (2 1/2 x 13/16 x 7 inches)
Weight	Approx. 130 g (4.6 oz) Including batteries

Design and specifications subject to change without notice.

Optional accessory
Optical cable POC-15

Troubleshooting Guide

Before going through the check list below, first refer back to the connections and operating procedures.

Should any problem persist after you have made these checks, consult your nearest Sony service facility.

Symptom	Cause	Remedy
The disc tray does not close.	The disc is not placed correctly.	Place the disc correctly on the disc tray.
Play does not start.	Dirty disc.	Clean the disc.
	The disc is inserted upside down.	Insert the disc with the printed side up.
	▮▮ is engaged.	Press ▶ or ▮▮ again to release it.
	Moisture condensation.	Leave the unit turned on for approximately one hour.
Sound is not heard.	Loose connection.	Insert the plug firmly.
	Connection is incorrect.	Check the connection referring to "Connecting the CD Player".
	The LINE OUT/PHONE LEVEL control (or LINE OUT LEVEL − button on the remote commander) is set to the minimum.	Turn the control clockwise, or press LINE OUT LEVEL + button on the remote commander.
Play does not begin from the first selection.	The unit is in the program or shuffle mode.	Press CONTINUE.
Play begins only by turning on the power.	The TIMER switch is set to PLAY.	Set the TIMER switch to OFF.
Level of the recorded sound has not been fixed even though the recording level was preset on the tape deck.	When the VARIABLE LINE OUT jacks are used, the LINE OUT/PHONE LEVEL control or (LINE OUT LEVEL +/− buttons on the remote commander are pressed) is turned while recording.	Do not turn the LINE OUT/PHONE LEVEL control (or press LINE OUT LEVEL +/− buttons) while recording.
The remote commander does not operate the unit.	The batteries are run down.	Replace both batteries.
	The remote commander is not pointed at the remote sensor.	Point the remote commander at the sensor.
	There is an obstacle between the remote commander and the unit.	Remove the obstacle.
	The remote commander is too far from the unit.	Move closer.
Operation is not possible.	The internal control program may not be functioning.	Turn off the power and turn it on again.